

ELROD MACHINES

	Price	Code Word
ELROD STRIP-CASTING MACHINE		
complete with standard motor (without molds)		
Model F (up to and including 35-point)		
Electric-heated	\$4,485.00	SALPA
Gas-heated	4,125.00	SALTY
Model E (up to and including 18-point)		
Electric-heated	3,965.00	SALTA
Gas-heated	3,625.00	SALVE
Accessory box and bracket (when ordered with machine)	90.00	POONS
(See Elrod Auxiliary Equipment)		
Model K (up to and including 18-point)		
Electric-heated	2,725.00	KALEC
Gas-heated	2,425.00	KAGAS

The following are standard Elrod electrical specifications:

115 volt D. C.	ABANA
115 volt A. C. 60 cycle, single-phase	ABBA
115 volt A. C. 50 cycle, single-phase	ABBA
230 volt D. C.	ABBA
208 to 240 volt A.C. 60 cycle, single-phase	ABBA
208 to 240 volt A.C. 50 cycle, single-phase	ABBA

According to the manufacturer, motors used on Elrod machines will operate satisfactorily on an approximate 10% variation plus or minus in voltage. In other words, a 115 volt motor is designed to operate satisfactorily on any line voltage between 103 volts and 126 volts, and a 230 volt motor is designed to operate satisfactorily on any line voltage between 207 and 253 volts.

If the electrical specifications are 3-phase or other than one of the above, the price of the E and F machine is increased..... \$87.00
Model K machine is increased..... 59.00

This charge covers not only the additional cost of special equipment but also the additional wiring costs on three phase (3 wire) equipment.

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Model F Elrod Machine

The Model F machine will cast material of all thicknesses from 1-point up to and including 36 point.

The Model F machine has all the new developments included in the Model E machine, and in addition to these improvements is equipped with the following:

- Intermittent Stroke Mechanism
- Reinforced Cutter Head Support
- Balance Hand Wheel
- Additional Front Tie Rod
- Widened Pulleys and Belt
- Large Mold Chamber
- Mold Adapter
- Safety-Slide-Equipped Cut-Off Lever
- 24 and 36 pt. Stationary Knives
- 24 and 36 pt. Material Holding Detent
- 24 and 36 pt. Puller Slide Material Stripper Plates
- 24 and 36 pt. Puller Wedge Shim
- 24 and 36 pt. Material Clamp Bracket Plates

The material from the 24, 30 and 36-point molds can be cast only from Model F Elrods.

Model E Elrod Machine

The Model E machine will cast material of all thicknesses from 1-point up to and including 18 points.

Water

A $\frac{1}{2}$ " water supply line, reduced to $\frac{1}{8}$ " at the machine, should be provided for. A $\frac{1}{4}$ " drain is also required.

The water consumption varies according to the product being produced. The hair-line on 2-point and twin lead material ordinarily require approximately 15 gallons of water per hour to properly carry off the heat. The 36-point material requires as much as 55 gallons per hour.

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Monomelt Installations

To install the Monomelt Feeder on an Elrod machine equipped with a pressure oiler, the Monomelt Company have found it necessary to move the pressure oiler away from the crucible and attach it to the back of the main table, opposite the puller mechanism.

Although no company can be expected to approve the changing of their equipment to meet conditions brought about by the installation of other equipment, the Ludlow Typograph Company offers no objection to this change, as it should not affect the operation of the machine. It should be clearly understood, however, that such changes are not to be made by our representatives, and that we are not responsible for any damage to the pressure oiler or any other part of the equipment brought about by such changes made in our equipment.

Use of "Hard" Metal in Elrod Machines

It is not intended that any metal other than standard Linotype metal be used in Elrod machines. The use of so-called "hard" metal, such as standard Monotype metal, is not practical. This is particularly true if the metal contains any portion of copper, which is most injurious to Elrod molds.

The following tools and consumable supply items are included in the price of a completely equipped Model E or F Elrod slug casting machine:

- 1 No. AEC-1018 Elrod Cleaning Outfit
- 1 No. AEC-1020A Mold Container
- 1 No. EC-1536A Twin Lead Separator
- 1 No. AEC-1582 Starting Strip Scraper
- 1 No. AEC-1635A Mold Remover
- 1 No. AEC-1018 Mold Sealing Plate
- 1 No. AEC-1337B Metal Drip Cup . . . \$8.15
- 1 No. EC-1255 Wrench for Oiler
- 1 No. 863 Bristol Set Screw Wrench (1/4")
- 1 No. EC-1616 1/4 Bristol Set Screw Wrench (3/16")
- 1 No. M-179 1/4 A Wrench (1/4")
- 1 No. EC-1184 1/4 Wrench (5/8")
- 1 No. EC-1519 Screw Driver
- 1 No. AEC-1043 Screw Driver
- 1 No. AEC-1520 Pliers . . . \$5.60
- 1 Gal. No. AEC-1250A-1 Elrod Mold Oil
- 6 No. EC-1318B Shearing Pins
- 1 No. AEC-1281C Oil Diffusion Tube
- 1 AFG-700 Pressure Oil Can
- 1 Set AFG-125 Hexagon Socket Key Wrenches

A quantity of Starting Strips

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The following tools and consumable items are included in the price of a completely equipped Model K Elrod slug casting machine.

- 1 No. AEC-1015 Elrod Cleaning Outfit
- 1 No. A-9020 Mold Container
- 1 No. 1536-B Twin Lead Separator
- 1 No. A-1582 Special Starting Strip
Scraper
- 1 No. A-1655-A Mold Remover
- 1 No. A-1019 Sealing Plate
- 1 No. A-1337-B Drip Cup
- 1 No. 1255 9/16" x 3/4" Wrench
- 1 No. M-179 1/4-B 3/8" x 1/2" Wrench
- 1 No. 1519 Screwdriver
- 1 No. A-1520 Special Mold Pliers
- 1 Set AFG-126 Hexagon Handi Key
Screwdriver For 3916
- 1 Set AFG-125 Hexagon Socket Key
Wrenches
- 1 No. A-1250-A-1 Mold Oil
- 1 No. A-1281-C Diffusion Tube
- 8 No. 1318-B Shear Pins
- 1 No. A-1328-C Mold Cover
- 1 No. AFG-700 Pressure Oil Can
- A Quantity of Starting Strips

ELROD PRODUCTION CHART

Body Size	Height	Can Be Cast on Models	App. Stroke (in/s)	Speed	App. ft. per Hour	App. lbs. per Hour
1 pt. twin	.765	All models	3	High	400	19
2 pt. single	.765	All models	6	High	420	40
2 pt. twin	.765	All models	5	High	750	70
2 pt.	Rule	All models	5	High	325	35
3 pt.	.765	All models	7	High	500	70
4 pt.	Rule	All models	5	High	350	80
6 pt.	.765	All models	6	High	400	115
8 pt.	Rule	All models	5½	Low	240	80
12 pt. hollow	.765	All models	6	Low	275	100†
12 pt. solid	Rule	All models	5	Low	225	125
18 pt. hollow	.765	See X below	5	Low	225	135†
18 pt. hollow	Rule	See X below	4½	Low	200	140†
24 pt. hollow	.765	F only	7½	High*	100	130†
24 pt. hollow	Rule	F only	8	High*	140	125†
30 pt. hollow	.765	F only	6	Low*	100	90†
30 pt. hollow	Rule	F only	5	Low*	85	100†
36 pt. hollow	.765	F only	6	Low*	100	105†
36 pt. hollow	Rule	F only	5	Low*	85	115†

High speed = 84 strokes per minute

Low speed = 34 strokes per minute

* Cast with intermittent stroke.

† A saving in metal of approximately one-third is effected by use of Elrod Hollow Body Material.

(X) Eighteen-point material can be produced on the Model F, the Model E, all new Model D Elrod machines serial #833 and up, and on rebuilt Model D or Model Ds Elrods shipped after July 1, 1927.

MOTORS & CRUCIBLES FOR ELROD MACHINES

	Price	Code Word
Elrod motor $\frac{1}{4}$ H.P., 1725 R.P.M. with pulley and set screw, (Standard electrical specifications.) This size motor is used on all models.		
Alternating Current, Single Phase	\$ 38.50	
Direct Current	77.25	
Three Phase Motor Only	62.00	
Special Voltages Additional Charge.....	62.00	
Model F Electric-Heated Crucible Complete with all heating units, etc., minus control panel and minus resistors for throat and sealing heaters.		
(No. AEC-1302 $\frac{1}{4}$ EA)	840.00	RADAS
Model E Electric-Heated Crucible Complete with all heating units, etc., minus control panel and minus resistors for throat and sealing heaters.		
(No. AEC-1302EC)	840.00	TESTA
Model F Gas-Heated Crucible (No. AEC-1802 $\frac{1}{4}$ A)	500.00	PONYS
Model E Gas-Heated Crucible (No. AEC-1802A)	500.00	POODS
Model K Electric-Heated Crucible (No. AEC-3300)	680.00	COMPA
Model K Gas-Heated Crucible (No. AEC-3800)	450.00	CONCO
Model DR Gas-Heated Crucible Complete with cast-iron casing, sealing valve, etc., and also including a complete Pressure Oiler. (This assembly intended for installation on old Model D Elrod machines in the field)	481.50	HEUGH
Please note that no electric-heated machine can be converted into a gas-heated machine, either in the field or at the factory. Likewise, no gas-heated machine can be converted into an electric-heated machine. This is because of fundamental differences in the construction of the main table and other parts of the electric-heated and gas-heated Elrod machines.		

MOTORS & CRUCIBLES FOR ELROD MACHINES

Electric-Heated Crucible (for Model F and Model E only)

According to the manufacturer, motors used on Elrod machines will operate satisfactorily on an approximate 10% variation plus or minus in voltage. In other words, a 115 volt motor is designed to operate satisfactorily on any line voltage between 103 volts and 126 volts, and a 230 volt motor is designed to operate satisfactorily on any line voltage between 207 and 253 volts.

Electric power consumption (8-hour day average including full flow for heating-out time of approximately one hour) equals 2 K.W.H. per hour.

As the maximum demand of the crucible and motor is 4800 watts, a #8 wire for 110 volts and #10 wire for 220 volts is required to bring the power to the machine.

Many buildings are not equipped with a #8 wire for the 110 volt circuit. Therefore, if the customer specifies 110 volt equipment, be very sure that the building is wired to take the maximum demand.

Gas-Heated Crucible

The gas-heated crucible on the Model F and the Model E machines is controlled by an automatic thermostat and a gas pressure regulator.

On orders for gas-heated Elrod machine always furnish gas specifications.

The gas consumption (over an 8-hour day, including full flow for heating-out time of approximately one hour) for the Model F and Model E machines equals approximately 28 cu. ft. (800 BTU gas) per hour. Connection $\frac{1}{2}$ " gas pipe to machine.

In those localities where neither gas nor electricity for heating is available, a bottled gas (Butane or Propane) may be used successfully with the standard Elrod Gas Crucible, the only change required being in the size of the spuds. The proper size spuds will be included in the Gas Crucible without extra charge provided proper information as to the B.T.U.s. per cubic foot and pressure at the machine are furnished with the order. There are a number of brands of bottled gas available. To our knowledge, Shellone, a product of the Shell Oil Company, is being used successfully on Gas-Heated Elrod Machines.

ELROD MACHINE IMPROVEMENTS

	Price	Code Word
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Pressure Mold Lubricator

On all Improved Model D, Model DS, Model E Elrod Machines shipped after Feb. 1, 1931. On all Model F Elrod machines.

Can be installed by any competent mechanic on any Model D Elrod machine Serial No. 350 and above and on any Model E Elrod machine.

For field installation on Model E and F Elrods.....

\$168.00 SCIOG

For field installation on Model D Elrods 232.00 SAMBO

Price does not include installation.

Plunger Gag. (AEC-1314½)..... 38.25 HICHT

On all Model F Elrod machines.

On all Model E Elrod machines shipped after Sept. 15, 1936.

Can be installed on any Model E Elrod machine in the field. Price does not include installation.

Cannot be installed on Model D or DS Elrod machines in the field.

Extended Mold Housing to Accommodate Long Diffusion Tube; Side Water Jacket Caps.

On all Model E and Model F Elrod machines shipped after January 18, 1937.

Cannot be installed on crucibles in the field. For installation on machines in the field, the complete crucible must be replaced.

Improved Water Supply and Drain System, including two-way Water Valve.

On all Model E and Model F Elrod machines shipped after January 18, 1937.

Cannot be installed on machines in the field.